

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY



To:
SEMICONDUCTOR ENERGY LABORATORY
CO., LTD.

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PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY
(PCT Rule 43bis.1)

Date of mailing (day/month/year)	08.11.2005
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Applicant's or agent's file reference 0000PCT8196	FOR FURTHER ACTION See paragraph 2 below
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International application No. PCT/JP2005/018243	International filing date (day/month/year) 27.09.2005	Priority date (day/month/year) 30.09.2004
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International Patent Classification (IPC) or both national classification and IPC Int.Cl. ⁷ H01L51/50 (2006. 01)

Applicant SEMICONDUCTOR ENERGY LABORATORY CO., LTD.
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1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☒ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☒ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Date of completion of this opinion 27.10.2005	
Name and mailing address of the ISA/JP Japan Patent Office 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Authorized officer Toshimitsu Satomura Telephone No. +81-3-3581-1101 Ext. 3271

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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

Int. application No.

PCT/JP2005/018243

Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of:
 - ☒ the international application in the language in which it was filed
 - ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
 - ☐ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material
 - ☐ on paper
 - ☐ in electronic form
 - c. time of filing/furnishing
 - ☐ contained in the international application as filed
 - ☐ filed together with the international application in electronic form
 - ☐ furnished subsequently to this Authority for the purposes of search
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-19	YES
	Claims		NO
Inventive step (IS)	Claims	1-19	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-19	YES
	Claims		NO

2. Citations and explanations:

None of the cited prior arts in the International Search Report does not disclose a light emitting element comprising, at least, a third layer including a transparent conductive film interposed between a first and a second electrode, wherein the third layer and the second electrode containing a metal are not in direct contact by the insertion of a fourth layer containing a hole-transporting medium.

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International application No.

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Box No. VI Certain documents cited

1. Certain published documents (Rules 43 bis.1 and 70.10)

Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
JP 2004-281371 A E, Y	07.10.2004	08.10.2003	09.10.2002
JP 2005-166637 A E, A	23.06.2005	06.10.2004	10.11.2003
JP 2005-251587 A E, A	15.09.2005	04.03.2004	

2. Non-written disclosures (Rules 43 bis.1 and 70.9)

Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

With regard to all of the claims

As described in all of the embodiments and examples, claimed inventions are characterized in that the electric erosion between a reflective metal cathode and a third layer including a transparent conductive film can be prevented by inserting a fourth layer containing a hole-transporting medium between the reflective metal cathode and the third layer.

However, all of the claims do not identify the second electrode as the cathode. Therefore, claimed inventions are not substantially supported by the specification under the meaning of PCT Article 6.